GRAND HD CINEMA PRO

USB to HDMI Converter

User's Manual

ISSUE: 2010/03/01

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1. Package Contents

This package contains the following items:

- Grand HD Cinema Pro
- USB Cable
- Power Adapter (DC 5V/ 1A)
- Driver CD (Driver & User Manual)

HD Cinema Pro

USB Cable

Power Adapter (DC5V, 1A)

Driver CD

2. Introduction

Grandtec is pleased to introduce the world's first high-resolution USB to HDMI/ VGA converter. The Grand HD Cinema Pro brings much convenience by allowing customers to play HD media files stored in PC on big screen by converting USB input into HDMI/ VGA.

Simply connect the USB interface of PC to the converter using the included USB cable, and connect it to your home theatre system with a HDMI cable, then you can enjoy the high quality pictures (resolution up to 1080p) and sound on your big screen.

What's more, the HD Cinema Pro is also a USB HUB (supports two USB 2.0 ports). The Grand HD Cinema Pro is an easy way to enjoy cinema-quality movies at your home.

3. System Requirements

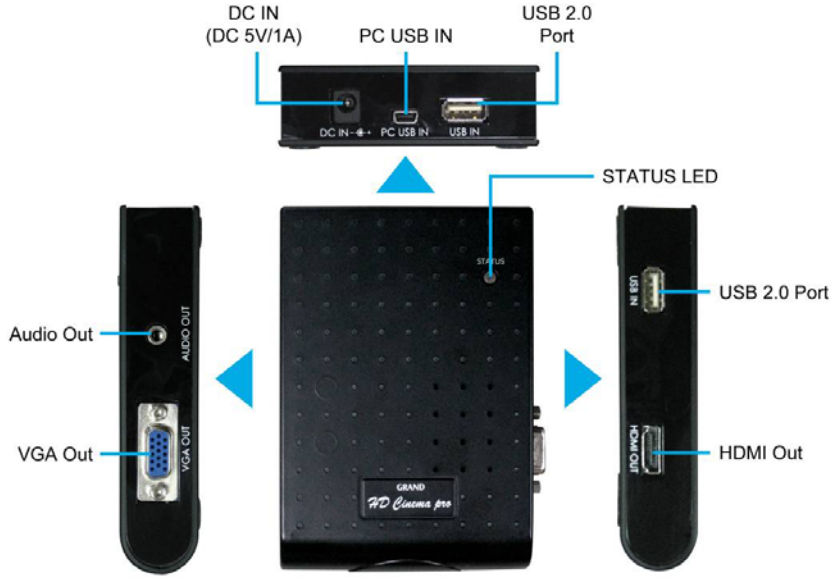
- Operating System:
  - Microsoft Windows 7 (32bit or 64bit)/ Vista (32bit or 64bit)/ XP (32bit).
  - Mac OS X Tiger 10.4.11/ Mac OS X Leopard 10.5.5 or above
- Processor: Intel Pentium Dual Core 1.8 GHz or above
- 1GB RAM or above
- Available USB 2.0 port
- 30Mb of available disk space

NOTE: When connecting more HD Cinema Pro to a computer, a system with higher CPU performance is recommend.

4. Product Features

- Compatible with **Windows 7 (32bit & 64bit), Vista (32bit & 64bit)** and **XP (32bit).**
- **Completely new architecture to support Vista Aero (32bit).**
- Compatible with **Mac OS X Tiger 10.4.11/ Mac OS X Leopard 10.5.5** or above.
- Easily connect monitors to one PC through USB 2.0.
  - Windows OS: Up to 6 monitors.
  - Mac OS: Up to 4 monitors.
- HDMI output supports both video and audio signals.
  NOTE: If you use multiple HD Cinema Pro, you can only select one of the display devices for sound output.
- Supports VGA output with audio output.
- Supports high resolution
  - HDMI Out: up to 1080p
  - VGA Out: up to 1920 x 1080
- Supports 2 USB 2.0 ports for connecting to USB pen driver (USB HUB function).
- Dimensions: 116.5(L) x 82(W) x 25(H) mm.
- Bundled Software:
  - Supports Distinct, Extended and Mirror Modes
  - Supports screen resolution and color quality adjustment in extended mode.
  - Allows you to rotate the screen on the add-on monitor by 90, 180 or 270 degrees
  - Supports online update automatically.
  - The software has been awarded Microsoft Windows Certification (Windows 7/ Vista/ XP).
  - **Sound Effects** like 10-band Equalizer and 27 environment effects can enrich user's audio experience and enjoyment.

5. Hardware Overview



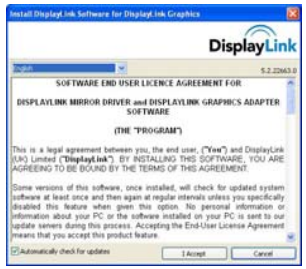
6. Installation

6.1 Install the Driver on Windows

6.1.1 Install the USB Video Driver

Step 1: Insert the provided driver CD into your CD-ROM driver. Execute the **Setup.exe** file.
<Driver> → <Windows> → <Video>

Step 2: A dialog box should pop up to prompt you to choose desired installing language. After choosing your language, click on **I Accept** to start installation automatically.

		
Install on Windows XP	**Install on Windows Vista**	**Install on Windows 7**

Step 3: After finishing the installation, a dialog box should pop up to inform you to restart your PC for the installation to completed and usable.

6.1.2 Install the USB Audio Driver

Step 1: Execute the **Setup.exe** file on the provided driver CD.
<Driver> → <Windows> → 〈Audio> → 〈XP> / <Vista> / <Windows 7>

Step 2: Follow the instructions of the wizard to complete the installation process.

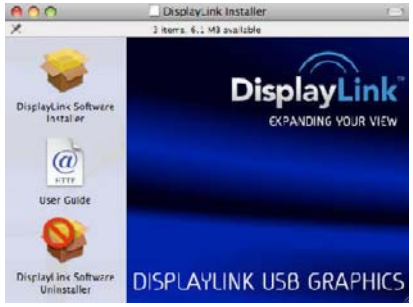
Step 3: After finishing the installation, a dialog box should pop up to inform you to restart your PC for the installation to completed and usable.

6.2 Install the Driver on MAC OS

6.2.1 Install the USB Video Driver

Step 1: Insert the provided driver CD into your CD-ROM driver. Mount the **HD Cinema Installer 1.1.dmg** file. <Driver> → <MAC OS> → 〈Video>

Step 2: Double click the **DisplayLink Software Installer** icon to run the installer.



Step 3: Click through the standard Mac Installer, accepting the EULA and allowing the system to reboot.

6.2.2 Install the USB Audio Driver

Step 1: Double click the **HD Cinema Installer** icon to run the installer.
<Driver> → <MAC OS> → 〈Audio>

Step 2: Click through the standard Mac Installer, accepting the EULA and allowing the system to reboot.

NOTE: Mac OS X support can be found at http://www.displaylink.com/mac/

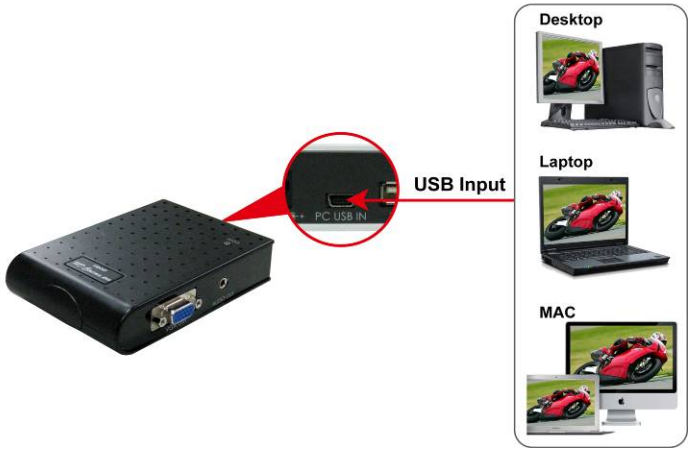
6.3 Hardware Installation

After finishing the software installation, please follow the steps below to complete the hardware installation.

Step 1: Plug the supplied power adapter to the HD Cinema Pro.

Step 2: Use the HDMI cable or VGA cable (with audio cable) to connect your display device such as projector or display device that supports HDMI input or VGA input (and audio input).

Step 3: Connect the HD Cinema Pro to an USB 2.0 port of your computer by using the provided USB cable.



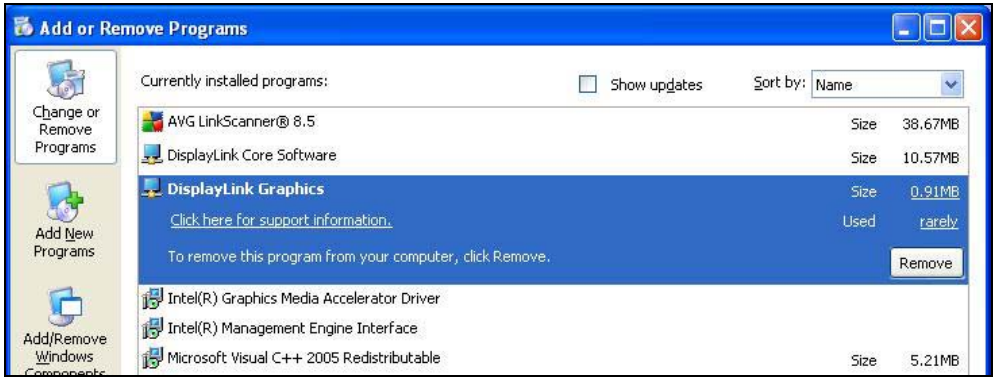
7. Uninstall

7.1 Uninstall the Driver on Windows XP

7.1.1 Uninstall the USB Video Driver

Step 1: Open the Control Panel: **Start** → **Control Panel** → **Add or Remove Programs.**

Step 2: Select the **DisplayLink Graphics** and click **Remove** to uninstall.


Add or Remove Programs
Currently installed programs:
Show updates
Sort by: Name
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
AVG LinkScanner® 8.5 Size 38.67MB
DisplayLink Core Software Size 10.57MB
DisplayLink Graphics Size 0.91MB
Click here for support information. Used rarely
To remove this program from your computer, click Remove.
Remove
Intel(R) Graphics Media Accelerator Driver
Intel(R) Management Engine Interface
Microsoft Visual C++ 2005 Redistributable Size 5.21MB

7.1.2 Uninstall the USB Audio Driver

Step 1: Open the Control Panel: **Start** → **Control Panel** → **Add or Remove Programs.**

Step 2: Select the **USB PnP Sound Device** and click **Change/Remove**, then follow the instructions of the uninstall wizard.

Add or Remove Programs
Currently installed programs:
Show updates
Change or Remove Programs
Add New Programs
Conexant HDA D110 MDC V.92 Modem
Dell ResourceCD
USB PnP Sound Device
To change this program or remove it from your computer, click Change/Remove.
High Definition Audio Driver Package - KB835221

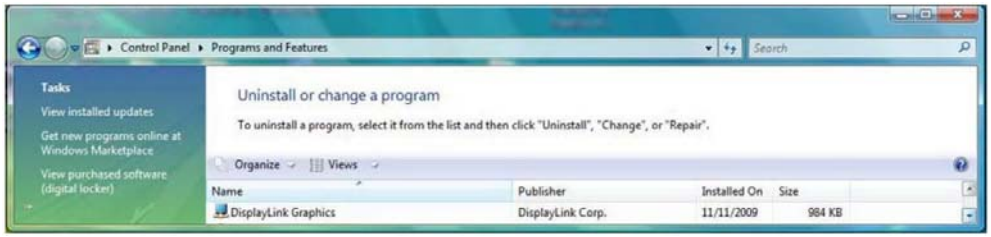
NOTE: Please restart your PC after uninstallation.

7.2 Uninstall the Driver on Windows Vista

7.2.1 Uninstall the USB Video Driver

Step 1: Open the Control Panel: **Start** → **Control Panel** → **Programs and Features.**

Step 2: Select the **DisplayLink Graphics** and click on **Uninstall.**

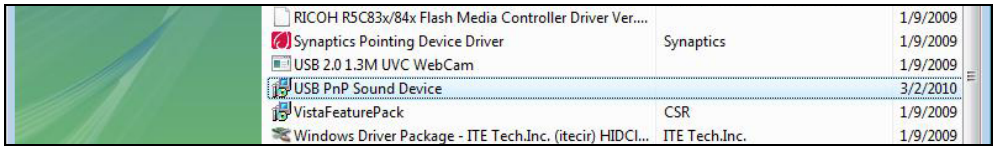


Step 3: Click **Yes** to uninstall it.

7.2.2 Uninstall the USB Audio Driver

Step 1: Open the Control Panel: **Start** → **Control Panel** → **Programs and Features.**

Step 2: Select the **USB PnP Sound Device** and click on **Uninstall/Change.**

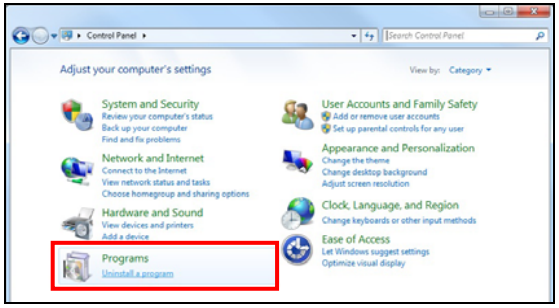

RICOH R5C83x/84x Flash Media Controller Driver Ver.... 1/9/2009
Synaptics Pointing Device Driver Synaptics 1/9/2009
USB 2.0 1.3M UVC WebCam 1/9/2009
USB PnP Sound Device 3/2/2010
VistaFeaturePack CSR 1/9/2009
Windows Driver Package - ITE Tech.Inc. (itecir) HIDCl... ITE Tech.Inc. 1/9/2009

Step 3: Click **Continue** to uninstall it.

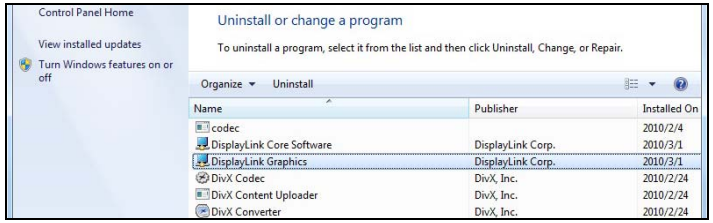
7.3 Uninstall the Driver on Windows 7

7.3.1 Uninstall the USB Video Driver

Step 1: Open the Control Panel: **Start** → **Control Panel** → **Programs**



Step 2: Double click on the **DisplayLink Graphics**, then a windows confirmation dialog will open.

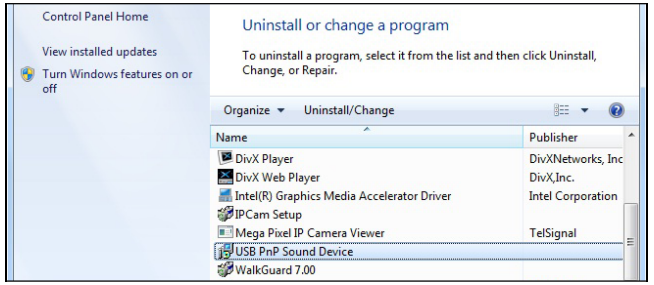

Control Panel Home
View installed updates
Turn Windows features on or off
Uninstall or change a program
To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.
Organize
Uninstall
Name
Publisher
Installed On
codec 2010/2/4
DisplayLink Core Software DisplayLink Corp. 2010/3/1
DisplayLink Graphics DisplayLink Corp. 2010/3/1
DivX Codec DivX, Inc. 2010/2/24
DivX Content Uploader DivX, Inc. 2010/2/24
DivX Converter DivX, Inc. 2010/2/24

Step 3: Click **Yes** to uninstall it.

7.3.2 Uninstall the USB Audio Driver

Step 1: Open the Control Panel: **Start** → **Control Panel** → **Programs and Features.**

Step 2: Select the **USB PnP Sound Device** and click on **Uninstall/Change.**


Control Panel Home
View installed updates
Turn Windows features on or off
Uninstall or change a program
To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.
Organize
Uninstall/Change
Name
Publisher
DivX Player DivXNetworks, Inc
DivX Web Player DivX,Inc.
Intel(R) Graphics Media Accelerator Driver Intel Corporation
IPCam Setup
Mega Pixel IP Camera Viewer TelSignal
USB PnP Sound Device
WalkGuard 7.00

Step 3: Click **Continue** to uninstall it.

7.4 Uninstall the Driver on MAC OS

7.4.1 Uninstall the USB Video Driver

Step 1: Mount the **HD Cinema Installer 1.1.dmg** file on the provided CD.
<Driver> → <MAC OS> → 〈Video>

Step 2: Click DisplayLink Software Uninstaller.

Step 3: Click through standard Mac uninstaller.
Step 4: After reboot, the USB Video driver will have been removed.

7.4.2 Uninstall the USB Audio Driver

Step 1: Double click the **HD Cinema Uninstaller** icon on the provided CD.
<Driver> → <MAC OS> → 〈Video>

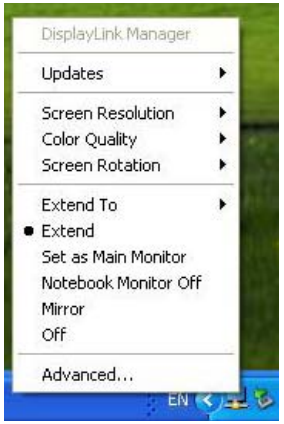
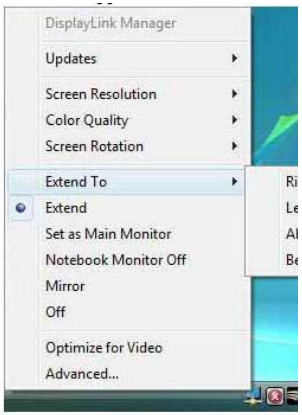
Step 2: Click through standard Mac uninstaller.
Step 3: After reboot, the USB Audio driver will have been removed.

8. Using the HD Cinema Pro on Windows

8.1 Windows XP & Vista

8.1.1 Using the HD Cinema Pro DisplayLink Manager

When devices are attached, an icon appears in the task bar. Right-clicking the icon will bring out the DisplayLink manager menu.

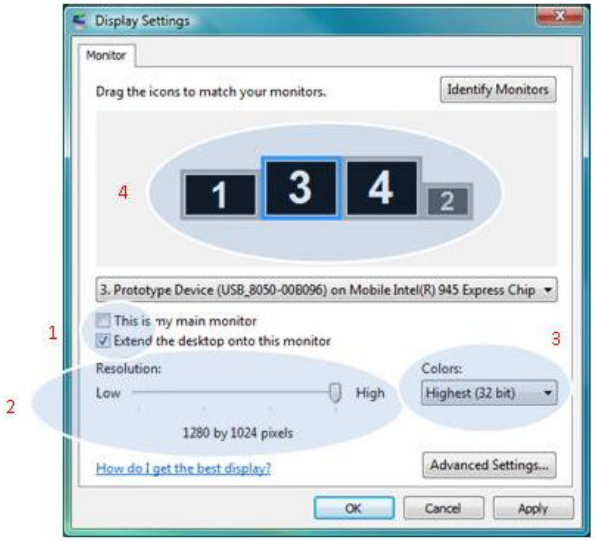
	
Windows XP	**Windows Vista**

■ Select an option from the menu, using the following table for the options available.

Menu Option	Sub-menu Option	Description
Updates	Check Now	Connects to the Update Server to check for newer driver versions and downloads them, if available.
	Configure	Opens the Update Options window where you can configure automatic updates.
Screen Resolution		Displays a list of available resolutions.
Color Quality	Medium (16-bit)	Changes the color depth of the extending display to 16bit.
	Highest (32-bit)	Changes the color depth of the extending display to 32bit.
Screen Rotation	Normal	No rotation is applied to the DisplayLink display.
	Rotated Left	Rotates the extended or mirrored display by 270 degrees.
	Rotated Right	Rotates the extended or mirrored display by 90 degrees.
	Upside-Down	Rotates the extended or mirrored display by 180 degrees.
Extend To	Right	Extends the display to the right of the main display
	Left	Extends the display to the left of the main display.
	Above	Extends the display above of the main display.
	Below	Extends the display below the main display.
Extend		Extends your desktop onto the secondary display.
Set as Main Monitor		Sets the secondary display as the main display.
Notebook Monitor Off		Switches off the display of an attached notebook and makes the DisplayLink display primary.
Mirror		Copies what is on the main display and reproduces it on the secondary display.
Off		Switches off the secondary display.
Optimize for Video (Windows Vista & 7 Only)		Configures the secondary display for optimum full screen video performance output. (Note: Text may appear less clear when enabled)
Advanced		Opens the Display Settings window.

8.1.2 Windows Display Properties

You can also adjust the resolution, color quality, position and refresh rate from the **Windows Display Properties** dialog box. Select the **Advanced** item from the DisplayLink manager menu to open the Display Settings window.



1. **Extend/ Mirror Function:** Check or uncheck the **Extend the desktop onto this monitor** checkbox to set the Extend or Mirror mode.
2. **Resolution:** Set the screen resolution using the resolution slide bar.
3. **Colors:** Select the color quality from the colors drop-down list.
4. **Position:** Arrange its position with respect to the other monitors on the extended desktop in using the drag area.

8.1.3 Using More HD Cinema Pro

It doesn't need to install driver again as long as you has completed above process of driver installation in advance. All the HD Cinema Pro will list in the **Display Properties** or the display manager menu.

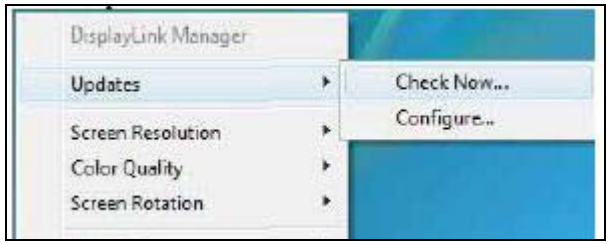
NOTE: When connecting more HD Cinema Pro to a computer, a system with higher CPU performance is recommend.

8.1.4 Firmware Update

- **Manually Update**

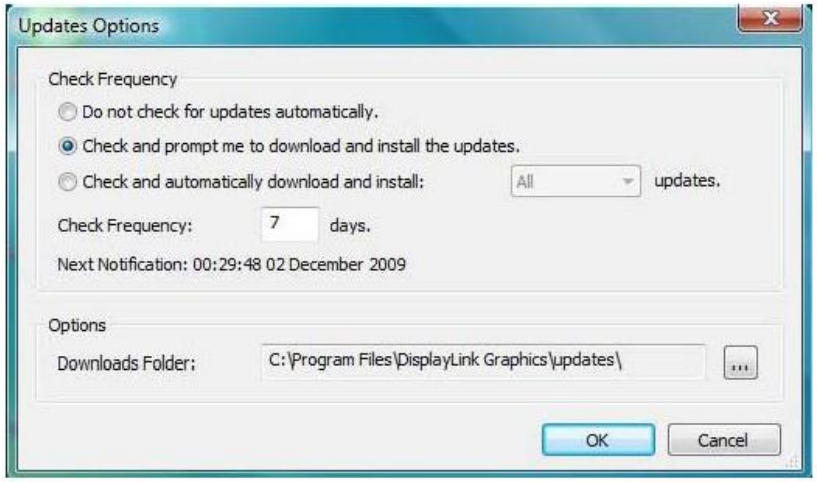
Click the **Updates** → **Check Now…**, and it will check and download the latest firmware immediately..

NOTE: Confirm that your computer is already connected to the network.



- **Configuring Updates**

Click the **Updates** → **Configure…** , the **Updates Options** window will appear as shown below. You can set the update method and frequency in the windows.



8.2 Windows 7

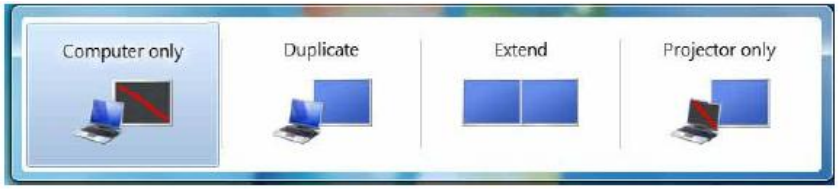
8.2.1 Windows Display Properties (WDP)

On Windows 7, you can configure the HD Cinema Pro from the Windows Display Properties (WDP). WDP provides a simple method to attach, rotate, duplicate or extend screens as well as modify screen resolution.

- **To open WDP:** Right-click on the desktop, then select **Screen Resolution** to open the WDP.
- Set the display options. Refer to the table below for details on each option.

Menu	Sub-menu	Description
Display		Use the drop down list to select a display to be configured.
Resolution		Use the drop down list and use the slider to choose a resolution.
Orientation	Landscape	Sets the display to landscape view.
	Portrait	Sets the display to portrait mode.
	Landscape (flipped)	Sets the display to upside down landscape mode.
	Portrait (flipped)	Sets the display to upside down portrait mode.
Multiple displays	Duplicates these displays	Reproduces the main display on the second display.
	Extend these displays	Extends the main display onto the secondary display.
	Show Desktop only on 1	The desktop appears on the display marked 1. The display marked 2 becomes blank.
	Show Desktop only on 2	The desktop appears on the display marked 2. The display marked 1 becomes blank.

- It is also possible to use Windows Key + P to display a menu (and cycle through it) to switch mode.



8.2.2 DisplayLink Manager Menu

- From the taskbar, click the **Show hidden icons** arrow to show available icons.

- Click the DisplayLink icon . A menu appears with several options, as described in the following table.

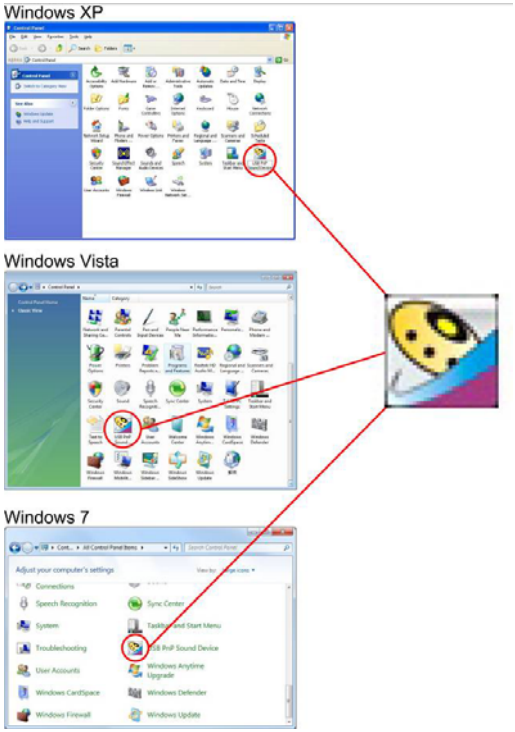
Menu	Description
Check for updates	Connects to the Windows Update and checks for newer versions and downloads them, if available.
Optimize for Video	Select the option for better movie playback performance on the DisplayLink enabled displays. Only select the option when playing back video content. (Note: Text may appear less clear when enabled)
Advanced	Opens the Windows Display Properties (WDP).

8.3 USB PnP Sound Program

The USB PnP sound program is C-Media's 3D audio control panel that you can control all audio configurations.

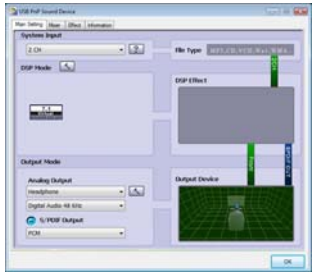
Open **Control Panel**, and then double click on the **USB PnP Sound Device** to enable it.

Or you can also click the **USB PnP Sound Device** icon from the taskbar.



- **Main Setting:** Select output device (earphone or speakers).

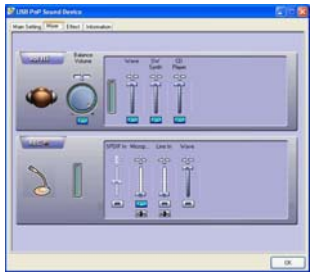
Windows XP

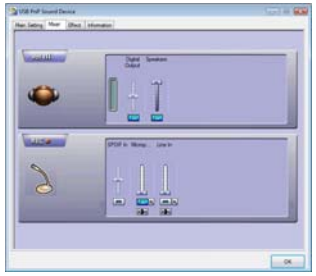


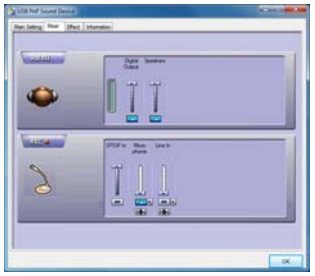
Windows Vista

Windows 7

■ **Mixer:** Adjusting the volume of each source.


Windows XP


Windows Vista

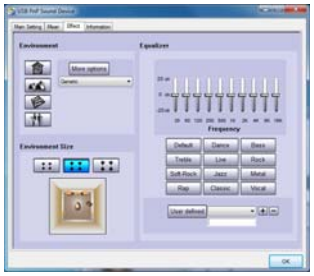

Windows 7

■ **Effect:** There are many environment effect presets and 10-band EQ for you to choose.

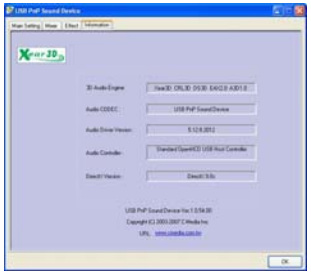
- Select an “Environment” button for emulation that is implemented by producing the sound reflection and reverberation.
- You can change the “Environment Size” to large or small, and you will hear the different felling about the environment space.
- You can select a pre-set mode (such as Bass, Treble, Live, etc….) for equalizer that is actually frequency response. You can also change the gain setting for each band and then give it a name in the following blank.

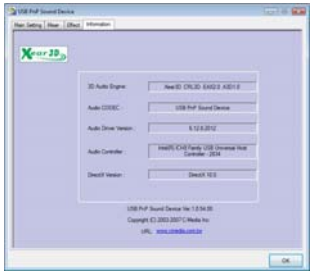
Windows XP

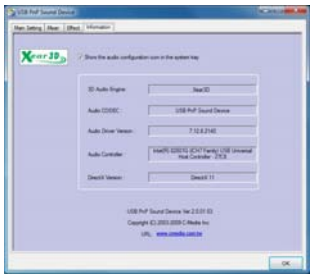
Windows Vista


Windows 7

■ **Information:** This page will display information of audio driver and system.


Windows XP


Windows Vista

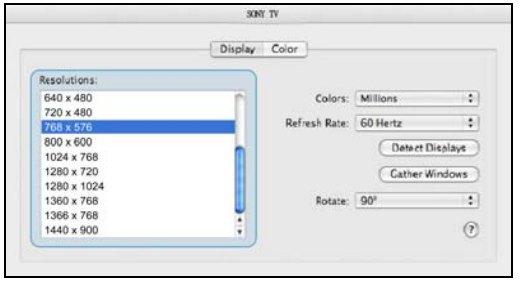

Windows 7

9. Using the HD Cinema Pro on MAC OS

Select **Displays** from the **System Preferences** menu. This will open a Display Preferences window on each of your attached displays allowing you to configure each display as required.

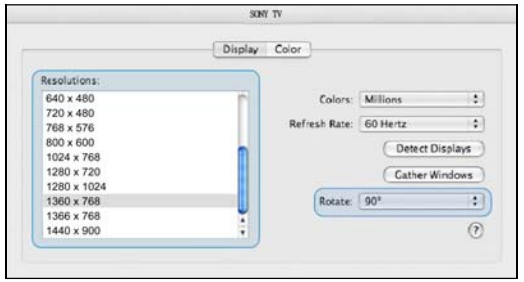
■ **Setting the Display Resolutions**

To change the display’s resolution, select an available resolution from the Display Preferences window of the display you wish to change.



■ **Rotating a Display**

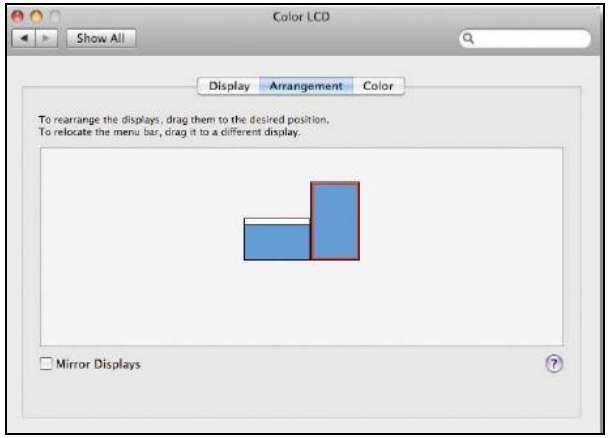
Use the Rotate drop down, and select the appropriate angle of rotation.



■ Setting the Position Displays

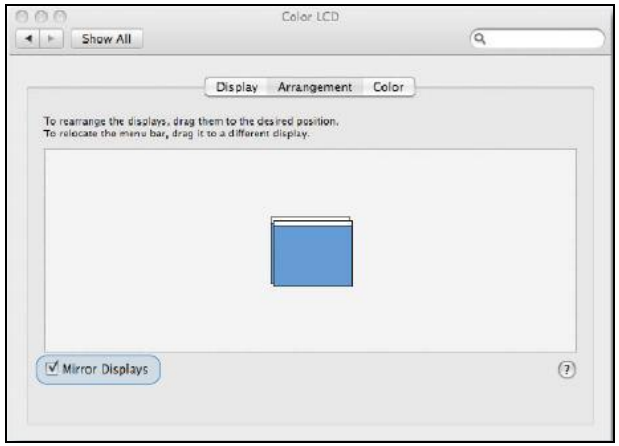
You can arrange your displays so that they match the physical layout of your displays by selecting the **Arrangement** pane within Display Preferences. This ensures that you can easily navigate between all connected displays.

To move the position of a display, click and hold the display you wish to move then drag it to the desired position. The display will be highlighted with a red border whilst you are moving the display to its new position.



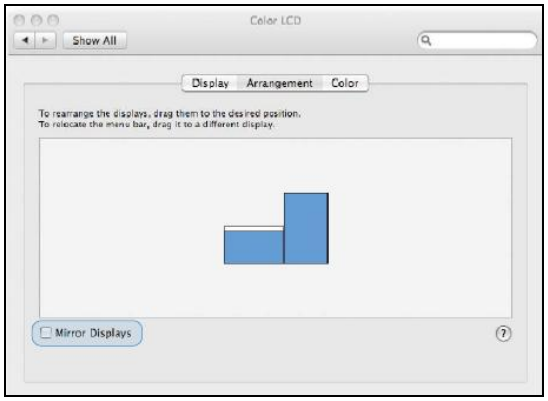
■ Setting the Display to Mirror Mode

When in Mirror mode, additional displays will display what is being shown on the primary display. Checking the **Mirror Display** on the **Arrangement** pane enables this feature.



■ Setting the Display to Extend

To extend connected displays, make sure that the **Mirror Display** on the **Arrangement** pane is unchecked.



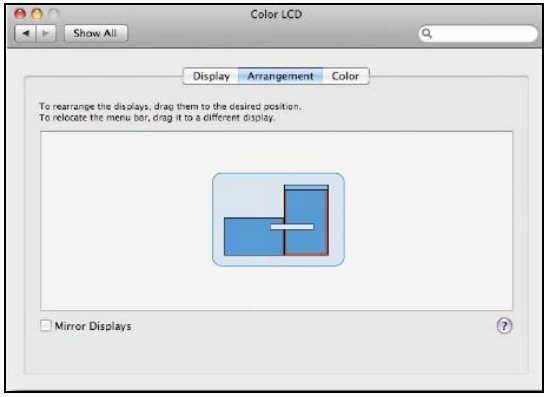
■ Using both Extended and Mirrored Displays

To work with both extended and mirrored displays, turn off mirroring than in the **Arrangement** pane press and hold **cmd** and **alt** and drag and drop the display you wish to mirror over the primary display.

Repeat this with each display you wish to mirror, those untouched will remain extending.

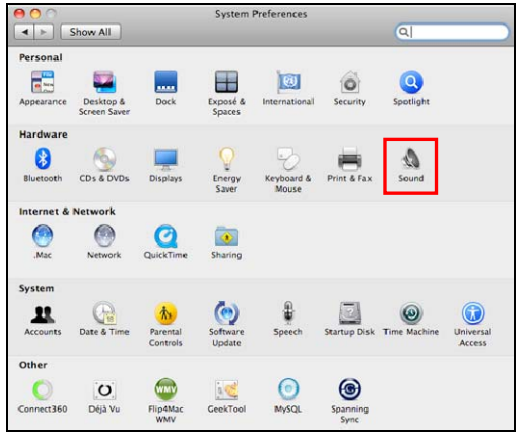
■ Changing the Main Display

You can change which is the main display by moving the **Menu Bar** between displays. Changing the main display affects where new windows appear and the position of the Dock. The **Menu Bar** can be moved so that is shown on an alternative display. Clicking the white menu bar and dragging it to the desired display will perform this action.

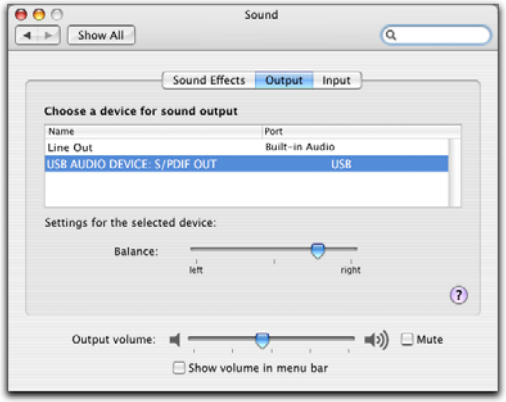


■ **Set the Sound Output**

Step 1: Select **Sound** from the **System Preferences** menu to open the sound control window.



Step 2: Select the device for sound output in the **Output** pane. Select the **USB AUDIO DEVICE: S/ PDIF OUT** for sound output from the connected display device.



10. Troubleshooting

Situation	Check Point
The device driver has been installed, but the HD Cinema Pro is not working	1. Make sure you restart your computer after the driver installation. 2. Check all the connectors are plugged in correctly. 3. Make sure the USB port that you are using is USB 2.0. 4. Check the additional monitor is connected correctly and the power is on. 5. Make sure the operating system The HD Cinema Pro is compatible with Windows 7 (32bit or 64bit), Vista (32bit or 64bit), XP (32bit) or Mac OS X Tiger 10.4.11/ Mac OS X Leopard 10.5.5 or above. 6. Try a different USB 2.0 or computer.
DVD player not working when move it over to the extended display	1. Try to open the program in the additional display first before playing the DVD.
The mouse not move pass the right side of the screen as it should on extended desktop	1. Check the display settings and make sure that your display number 2 is on the right side of display number 1.